

LISTING OF THE CLAIMS:

1-3. (Canceled)

1 4. (Currently Amended) The method of claim 1, including a catalyst present
2 for the reacting step carbonation.

1 5. (Original) The method of claim 4, wherein the catalyst is
2 tetrabutylammonium bromide (TBAB).

1 6. (Currently Amended) The method of claim 1, wherein the epoxidized oil is
2 converted to carbonated oil without any significant side reactions occurring.

1 7. (Currently Amended) A method of producing a nonisocyanate polyurethane
2 network ~~carbonated soybean oil~~, comprising:
3 reacting an epoxidized soybean oil (ESBO) with carbon dioxide, wherein
4 a carbonated soybean oil is produced.

8-19. (Canceled)

1 20. (Previously Presented) A method of making a nonisocyanate polyurethane
2 network, comprising:
3 mixing
4 (1) a carbonated vegetable oil and
5 (2) an amine having functionality of at least two;
6 wherein a nonisocyanate polyurethane network is formed.

1 21. (Original) The method of claim 20, wherein the carbonated vegetable oil
2 and amine are mixed stoichiometrically at or within nearly balanced
3 stoichiometry.

1 22. (Original) The method of claim 20, wherein the carbonated vegetable oil is
2 carbonated soybean oil.

1 23. (Original) The method of claim 20, wherein the amine is selected from the
2 group consisting of ethylenediamine (ED), hexamethylenediamine (HMD), and
3 tris(2-aminoethyl) amine (TA).

1 24. (Original) The method of claim 20, wherein a viscous solution is produced
2 from the mixing, and the viscous solution is transferred into a mold, followed by
3 curing.

1 25. (Original) A polyurethane network comprising:
2 a nonisocyanate polyurethane network produced from a carbonated
3 vegetable oil.

1 26. (Previously Presented) The method of claim 1, wherein the epoxidized
2 vegetable oil is carbonated at atmospheric pressure.

1 27. (New) A method of producing a foam or a non-isocyanate polyurethane
2 network, comprising:
3 reacting an epoxidized vegetable oil with carbon dioxide to form a
4 carbonated vegetable oil, and
5 processing the carbonated vegetable oil into a foam or a non-isocyanate
6 polyurethane network.

1 28. (New) The method of claim 27, wherein the carbonated product is processed
2 into a rigid foam.

1 29. (New) The method of claim 27, the carbonated product is processed into a
2 flexible foam.

1 30. (New) The method of claim 27, wherein the carbonated product is processed
2 into a non-isocyanate polyurethane network.